

Rev H





Size: 2.91 x 2.13 x 0.87 inches 74.0 x 54.0 x 22.0 mm

FEATURES

- RoHS Compliant
- 15 Watts Output Power
- Low Ripple and Noise
- Single, Dual, and Triple Outputs Universal Input Voltage Range: 90-264VAC (120-
- UL/cUL, and CE Approvals
- Fully Encapsulated Plastic Case Short Circuit, Over Power, and Over Voltage Protection

370VDC)

Screw Terminal Mechanical Options Available

PCB Mountable Switching Power Supply

-25°C to +70°C Operating Temperature Range

Optional -40°C~+71°C Operating Temperature Range

DESCRIPTION

The PSANC series of AC/DC switching power supplies provides 15 watts of output power in a 2.91" x 2.13" x 0.87" encapsulated PCB mountable package. This series consists of single, dual, and triple output models with a universal input range of 90-264VAC (120-370VDC). Some features include low ripple and noise, -25°C to +70°C operating temperature range, and over power, over voltage, and short circuit protection. The PSANC series also has two types of screw terminal mechanical options and an extended operating temperature option available. All models are RoHS compliant and have UL/cUL, and CE safety approvals.

				МО	DEL SE	LECTIO	N TABLE				
								_			
Model Num	iber	Input Voltage	Output Voltage	Output Output	Current Max Load	Voltage Accuracy	Line Regulation	Load Regulation (5% - 100%)	Output Power	Efficiency	Maximum Capacitive Load
PSANC-5S			5 VDC	4%	3000mA	±2%	±0.5%	±0.5%	15W	74%	31,000µF
PSANC-12S		90~264 VAC (120~370 VDC)	12 VDC	2%	1250mA	±2%	±0.5%	±0.5%	15W	79%	4500µF
PSANC-15S PSANC-24S			15 VDC	0%	1000mA	±2%	±0.5%	±0.5%	15W	78%	2700µF
		VDC)	24 VDC	0%	625mA	±2%	±0.5%	±0.5%	15W	80%	900µF
					DUAL OL	JTPUT MO	DELS				
Model Number Input Voltage		Output Voltage	Output (Min Load	Current Max Load	Voltage Accuracy	Line Regulation	Load Regulation (5% - 100%)	Output Power	Efficiency	Maximum Capacitive Load	
PSANC-5D	Vo ₁ Vo ₂		+5 VDC -5 VDC	0% 0%	1500mA 1500mA	±5% ±5%	±0.5% ±0.5%	±3% ±3%	15W	76%	13,500µF 13,500µF
PSANC-12D	Vo ₁ Vo ₂	90~264 VAC (120~370	+12 VDC -12 VDC	0% 0%	650mA 650mA	±5% ±5%	±0.5% ±0.5%	±3% ±3%	15W	79%	2700µF 2700µF
PSANC-15D	Vo ₁ Vo ₂	VDC)	+15 VDC -15 VDC	0% 0%	500mA 500mA	±5%	±0.5% ±0.5%	±3% ±3%	15W	77%	1400µF 1400µF
	_				TRIPLE C		ODELS				•
Model Number Input Voltage		Output Voltage	Output (Min Load ⁽¹⁾		Voltage Accuracy	Line Regulation	Load Regulation (5% - 100%)	Output Power	Efficiency	Maximum Capacitive Load	
PSANC- 5S12D	Vo ₁ Vo ₂ Vo ₃	90~264 VAC	5 VDC +12 VDC -12 VDC	10% 0% 0%	2000mA 200mA 200mA	±3% ±3% ±3%	±1% ±5% ±5%	±2% ±5% ±5%	15W	79%	14,000μF 900μF 900μF
PSANC- 5S15D	Vo ₁ Vo ₂ Vo ₃	(120~370 VDC)	5 VDC +15 VDC -15 VDC	10% 0% 0%	2000mA 150mA 150mA	±3% ±3% ±3%	±1% ±5% ±5%	±2% ±5% ±5%	15W	78%	14,000μF 680μF 680μF

NOTES

1. Some models require a minimum loading on the output to maintain specified regulations. Operation under no-load conditions will not damage these devices; however, they may not meet all listed specifications.

2. For -40°C to +71°C extended operating temperature range please add the suffix -E1 to the model number (Ex: PSANC-12S-E1).

3. Screw terminal mechanical options available (see page 4). Please call factory for ordering details.

Due to advances in technology, specifications are subject to change without notice.

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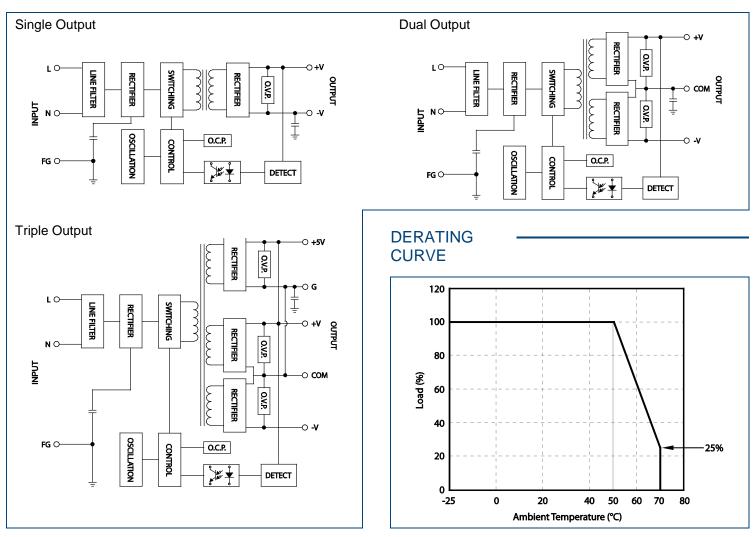
SPECIFICATIC								
All specif		d on 25°C, Nominal Input Voltage rve the right to change specification			otherwise	e noted.		
SPECIFICATION	Werese	TEST CONDI		Min	Тур	Max	Unit	
INPUT SPECIFICAT					Typ	IVICA	Onit	
		AC input voltage range		90		264	VAC	
nput Voltage		DC input voltage range		120		370	VDC	
Input Frequency		DC input voltage range		47		440	Hz	
input riequency		At 115VAC and full load		47		310	112	
Input Current		At 230VAC and full load				170	mA	
		At 250 VAC and full load	A+ 115\/AC			10		
		Standard Models	At 115VAC			-	Α	
Inrush Current (<2m	s)		At 230VAC			20		
		"-E1" Suffix Models	At 115VAC			23	Α	
			At 230VAC			46		
External Fuse (recor				1	.5A slow b	now type		
OUTPUT SPECIFIC	ATIONS				o =			
Output Voltage					See Ta			
Voltage Accuracy					See Ta			
Line Regulation		Low Line to High Line		See Table				
Load Regulation					See Ta			
Output Power						15	W	
Output Current					See Ta			
Minimum Load					See Ta			
Rinnle & Noise	Ripple	Measured at 20MHz BW with 0.1	< 0.2% V	out +40m	V max.	Vn		
Noise		in parallel		< 0.5% V	out +50m'	V max.	vp-b	
Max Capacitive Load	d				See Ta	able		
Hold-Up Time				15			ms	
Temperature Coeffic	cient				±0.02		%/°C	
PROTECTION		·						
Short Circuit Protect	ion			Hiccup mod	de, indefin	ite (auto-r	ecover	
Over Voltage Protec					Zener diod			
Over Power Protecti						, auto-rec	overv	
GENERAL SPECIFI		I				, 2010 100	,	
Efficiency					See Ta	ahle		
Switching Frequency					100		КП-	
Switching Frequency	Input to Output			3000	100		NΠZ	
Icolation Voltage	Input to FG							
Isolation Voltage				1500			-recovery covery KHz VAC	
	Output to FG			500		0.75	· A	
Leakage Current		2				0.75	mA	
ENVIRONMENTAL	SPECIFICATION			67		=0		
Operating Temperat	ure	Standard Models		-25		+70	°C	
		"-E1" Suffix Models		-40		+71		
Storage Temperatur	e			-40		+85	°C	
Humidity						95	% RI	
Cooling					ree air co	nvection		
MTBF		25°C (MIL-HDBK-217F)		200,000			hour	
PHYSICAL SPECIF	ICATIONS							
Weight		4.02oz (114g)						
vv eigint		With Baseplate 8.61oz (244g)						
Case Material		Plastic resin with fiberglass (Flammability to UL 94V-0						
Dimensions (L x W >	(H)			.13 x 0.87 in				
SAFETY & EMC	·				`			
Safety Approvals					UL/cUL	, CE		
· · · ·		EMI (Conducted and Radiated E	missions)	F	EN 55022			
EMC		EMS (Noise Immunity)		-		2 Class B 5024		

05/29/2013



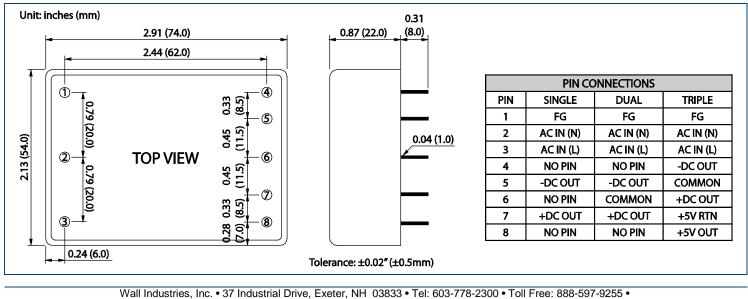
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BLOCK DIAGRAMS



MECHANICAL DRAWING

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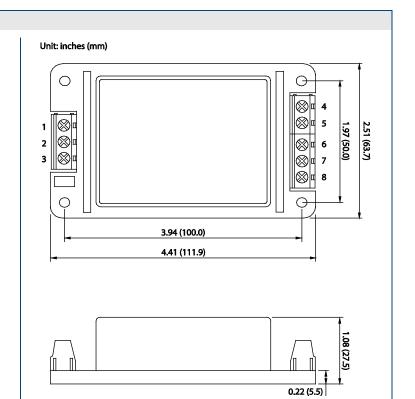


SCREW TERMINAL OPTIONS -





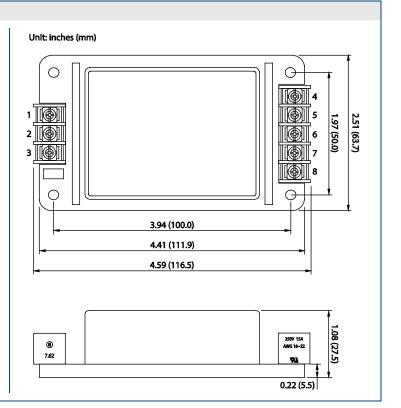
PIN CONNECTIONS						
PIN	SINGLE	DUAL	TRIPLE			
1	FG	FG	FG			
2	AC IN (N)	AC IN (N)	AC IN (N)			
3	AC IN (L)	AC IN (L)	AC IN (L)			
4	NO CONNECT	NO CONNECT	-DC OUT			
5	-DC OUT	-DC OUT	COMMON			
6	NO CONNECT	COMMON	+DC OUT			
7	+DC OUT	+DC OUT	+5V RTN			
8	NO CONNECT	NO CONNECT	+5V OUT			



PSANC-A5



PIN CONNECTIONS						
PIN	SINGLE	DUAL	TRIPLE			
1	FG	FG	FG			
2	AC IN (N)	AC IN (N)	AC IN (N)			
3	AC IN (L)	AC IN (L)	AC IN (L)			
4	NO CONNECT	NO CONNECT	-DC OUT			
5	-DC OUT	-DC OUT	COMMON			
6	NO CONNECT	COMMON	+DC OUT			
7	+DC OUT	+DC OUT	+5V RTN			
8	NO CONNECT	NO CONNECT	+5V OUT			



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COMPANY INFORMATION-

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact Wall Industries for further information: